

Work Order ID 73273 -2

Monday, August 29, 2011 4:16:13 PM



Ship beg. 8/30/11 Page 1

Item ID: D412-702-021

Accept

Revision ID: ~~U/R~~



Setup Start



Item Name: 13-Man Shoulder Harness, 4 point Split 2x

Stop



Start Date: 8/29/2011 Start Qty: 3.00



Cust Item ID:

Required Date: 9/2/2011 Req'd Qty: 3.00



Customer:

Reference:

Approvals: Process Plan: *mk*

Date: 11-08-29

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

N/A

Rev N/A

100



DC

Document Control

DOCUMENT CONTROL

label

0.00

Memo

0.00

Photocopy bluefile and create labels per PPP D412-702-021 CHG003

S. Worsley

110



Packaging

Packaging

Pick Kit

0.00

Memo

0.00

11/8/2011



120



QC

Quality Control

QC4- 100% Inspect kits for completeness

0.00

Memo

0.00

S. Worsley



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 73273

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Page 2

Item ID: D412-702-021
 Revision ID: U/R
 Item Name: 13-Man Shoulder Harness, 4 point
 Start Date: 8/29/2011 Start Qty: 3.00
 Required Date: 9/2/2011 Req'd Qty: 3.00
 Reference:

Accept



Setup Start



Stop



Cust Item ID:

Customer:

Approvals: Process Plan: Date: Tooling: Date:
 QC: Date: SPC (Y/N): Date:

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 	Packaging	0.00							
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-702-021 Location: <i>Qauc</i>								
140 	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.00							
Quality Control									

11/9/14

[Signature]

[Signature]

11/9/14

[Signature]

11-09-14

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 1

Work Order ID: 73273

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness. 4 point



Start Date: 8/29/2011

Required Date: 9/2/2011

Start Qty: 3.00

Required Qty: 3.00

Comments: IPP Rev:B Removed Manufacturing 05-11-08 JLM
 IPP Rev:C 06.04.03 As per DSI9324 JLM
 IPP rev D 06.12.14 per ecn 871 EC
 IPP Rev:E 07-03-14 As per DSI 9351 JLM
 IPP Rev:F 07-07-28 As per Rev E JLM Verified By:ec IPP Rev.G
 11.05.31 DSI 9559 EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN4-13A Bolt		Purchased	No			120	Each	1,334.000	4	12			

Location

Loc Qty

Loc Code

ST357

1334

118078

594

118351

240

118706

500

AN4-20A Bolt		Purchased	No			120	Each	557.0000	8	24			
---------------------	--	-----------	----	--	--	-----	------	----------	---	----	--	--	--

Location

Loc Qty

Loc Code

ST359

557

115936

57

116419

200

117514

300

AN4-5A Bolt		Purchased	No			120	Each	214.0000	4	12			
--------------------	--	-----------	----	--	--	-----	------	----------	---	----	--	--	--

Location

Loc Qty

Loc Code

ST355

200

117508

200

ST356

14

116549

14

Picklist Print

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Page 2

Work Order ID: 73273

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness. 4 point

Start Date: 8/29/2011

Required Date: 9/2/2011

Start Qty: 3.00

Required Qty: 3.00

AN960JD416

NAS1149D0463J

Purchased

No

120

Each

0.0000

20 60

Washer

D3195-041

Manufactured

No

120

Each

4.0000

2 6

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

4

71905

4

120

Each

5.0000

2 6 3x

D3195-043

Manufactured

No

Bracket Assembly

Location

Loc Qty

Loc Code

ST246A

5

72925

5

120

Each

0.0000

1 3 2x

D3196-1

Manufactured

No

Bar

D3196-3

Manufactured

No

120

Each

1.0000

1 3

Bar

Location

Loc Qty

Loc Code

ST260

1

70928

1

120

Each

2.0000

1 3

D3196-4

Manufactured

No

Bar

Location

Loc Qty

Loc Code

ST260

2

70930

2

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Shop Packet Print

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Page 3

Work Order ID: 73273

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 8/29/2011

Required Date: 9/2/2011

Start Qty: 3.00

Required Qty: 3.00

D3197-041

Manufactured No

120 Each

0.0000

2 6

Bar Assembly

D3198-1

Manufactured No

120 Each

9.0000

4 12

Fitting

Location

Loc Qty

Loc Code

ST246A

9

70149

1

70927

8

Manufactured No

120 Each

4.0000

2 6

D3268-1

Placard

Location

Loc Qty

Loc Code

ST246A

4

70951

4

Manufactured No

120 Each

2.0000

2 6

D3546-1

Clip

Location

Loc Qty

Loc Code

ST245

2

70150

2

Manufactured No

120 Each

17.0000

13 39

D3551-11

Hock and Loop Tie

Location

Loc Qty

Loc Code

ST246A

17

71167

17

B71032 SP
B73275 3.00 11/12 SP

2 6 SP

2 6 SP

13 39 7
B70915 11/18/30
B73276 2X 11/12
25

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Page 3

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Page 4

Work Order ID: 73273

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 8/29/2011

Required Date: 9/2/2011

Start Qty: 3.00

Required Qty: 3.00

D412-702-069 *CH 7001*

Manufactured No

120 Each

1.0000



Grommet



Location

Loc Qty

Loc Code

FG122

1

70940

1

70940

120 Each

3.0000

D4387-041

Manufactured No



Harness Assembly



Location

Loc Qty

Loc Code

ST263

3

70759

3

70759

120 Each

20.0000

D4387-043

Manufactured No



Harness Assembly



Location

Loc Qty

Loc Code

ST263

20

70054

8

70056

12

70054

120 Each

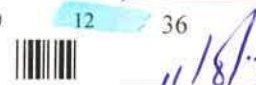
4,102.000

MS21042L4

Purchased No



Nut



Location

Loc Qty

Loc Code

ST300

4102

117441

51

117601

637

117885

1414

118451

2000

36

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Page 5

Work Order ID: 73273

Parent Item: D412-702-021

Parent Item Name: 13-Man Shoulder Harness, 4 point

Start Date: 8/29/2011

Required Date: 9/2/2011

Start Qty: 3.00

Required Qty: 3.00

MS24694-S152

Purchased

No

120

Each

31.0000



Screw



8

24

Location

Loc Qty

Loc Code

ST289A

31

116440

31

120

Each

20.0000

MS24694-S154

Purchased

No



SCREW



8

24

Location

Loc Qty

Loc Code

ST290

20

116328

8

117601

12

11/8/30



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Shop Packet Print

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

QTY -021	QTY -023	QTY -025	QTY -027	QTY -029	QTY -035	Part Number	Description
X						D412-702-021	Dart 13-Man Shoulder Harness Kit, 4-point
	X					D412-702-023	Dart 5-Man Forward Facing Shoulder Harness Kit, 4-point
		X				D412-702-025	Dart 4-Man Aft Facing Shoulder Harness Kit, 4-point
			X			D412-702-027	Dart 4-Man Side Facing Shoulder Harness Kit, 4-point
				X		D412-702-029	Dart 1-Man Forward Facing Shoulder Harness Kit, 4-point
					X	D214-702-035	Dart 5-Man Aft Facing Shoulder Harness Kit, 4-point, for Bell 214B/B-1
1	1		1	1		D412-702-069	GROMMET KIT
2	2					D3195-041	BRACKET
2	2					D3195-043	BRACKET
1	1			1		D3196-1	BAR
1			1			D3196-3	BAR
1			1			D3196-4	BAR
2	2					D3197-041	BAR
4		4				D3198-1	FITTING
2	2					D3268-1	PLACARD
9	5		4	1		D3446-041	HARNESS ASSEMBLY, 4 POINT
4		4				D3446-043	HARNESS ASSEMBLY, 4 POINT
					5	D3446-045	HARNESS ASSEMBLY, 4 POINT
13	5	4	4	1	5	D3551-11	HOOK AND LOOP TIE
2	2					D3546-1	CLIP
4		4				AN4-5A	BOLT
4	4					AN4-13A	BOLT
8		8				AN4-20A	BOLT
20		20				AN960JD416	WASHER (OR NAS1149D0463J)
12		12				MS21042L4	NUT (OR MS21042-4)
8	2		6	2		MS24694-S152	SCREW
8	2		6	2		MS24694-S154	SCREW

QTY -069	Part Number	Description
X	D412-702-069	GROMMET KIT
24	D3619-2	GROMMET
1	D3619-2T1	HOLE PUNCH
1	D3619-2T2	STRIKER BLOCK
1	D3619-2T3	PUNCH
1	D3619-2T4	DIE

REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND IIN-D412-702-1 REV. A,
AND ICA-D412-702 REV. 4 OR EARLIER APPROVED REVISIONS
REF. TCCA STC: SH04-7
REF. FAA STC: SR01997NY
REF. EASA STC: EASA.IM.R.S.00710

PURPOSE

The purpose of this DSI is to outline the replacement of existing D3446-041/-043 Shoulder Harnesses with the new and improved D4387-041/-043 Shoulder Harnesses.

CHANGE

For the following Kits, the D4387-041 and D4387-043 Shoulder Harnesses respectively replace the D3446-041 and D3446-043 Shoulder Harnesses as follows:

Old Harness P/N	Used On	New Harness P/N	Effectivity
D3446-041	D412-702-021	D4387-041	CHG 003 and subsequent
	D412-702-023		
	D412-702-027		CHG 002 and subsequent
	D412-702-029		
D3446-043	D412-702-021	D4387-043	CHG 003 and subsequent
	D412-702-025		CHG 002 and subsequent

Customers who want to upgrade their shoulder harnesses may replace their existing D3446-041/-043 with D4387-041/-043 per this service instruction.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.05.09
CERT. NO.: SH04-7
ISSUE NO.: 3

A	NEW ISSUE	MB	11.05.09
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9559	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		HARNESS CHANGE	NTS
DATE	11.05.09	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	